Headphone Amp

Moonn Electronics

Use me to build a clone of the MXR Headphone Amplifier

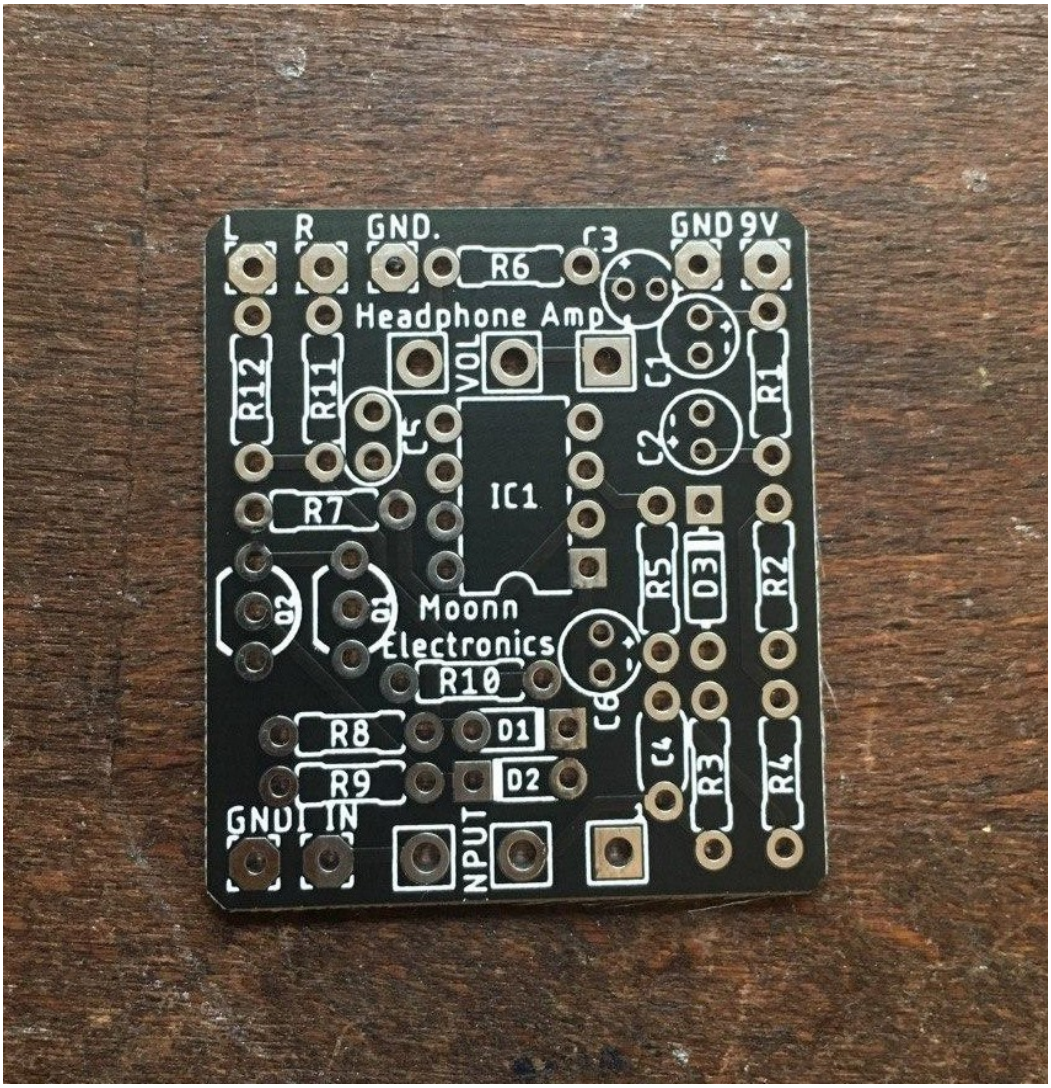
Hi!
Thank you for building me!

What i do is pretty simple.
Just plug your guitar, synth, organ, sampler full of animal sounds or whatever into the input, plug your headphones into the output and make some sounds only for yourself.

Use the „Input“ and „Vol“ (more like gain) controls to get a good sound out of your gear.

If you have any questions or anything else to say, just write an email to
moonnelectronics@gmail.com

Have a nice day!



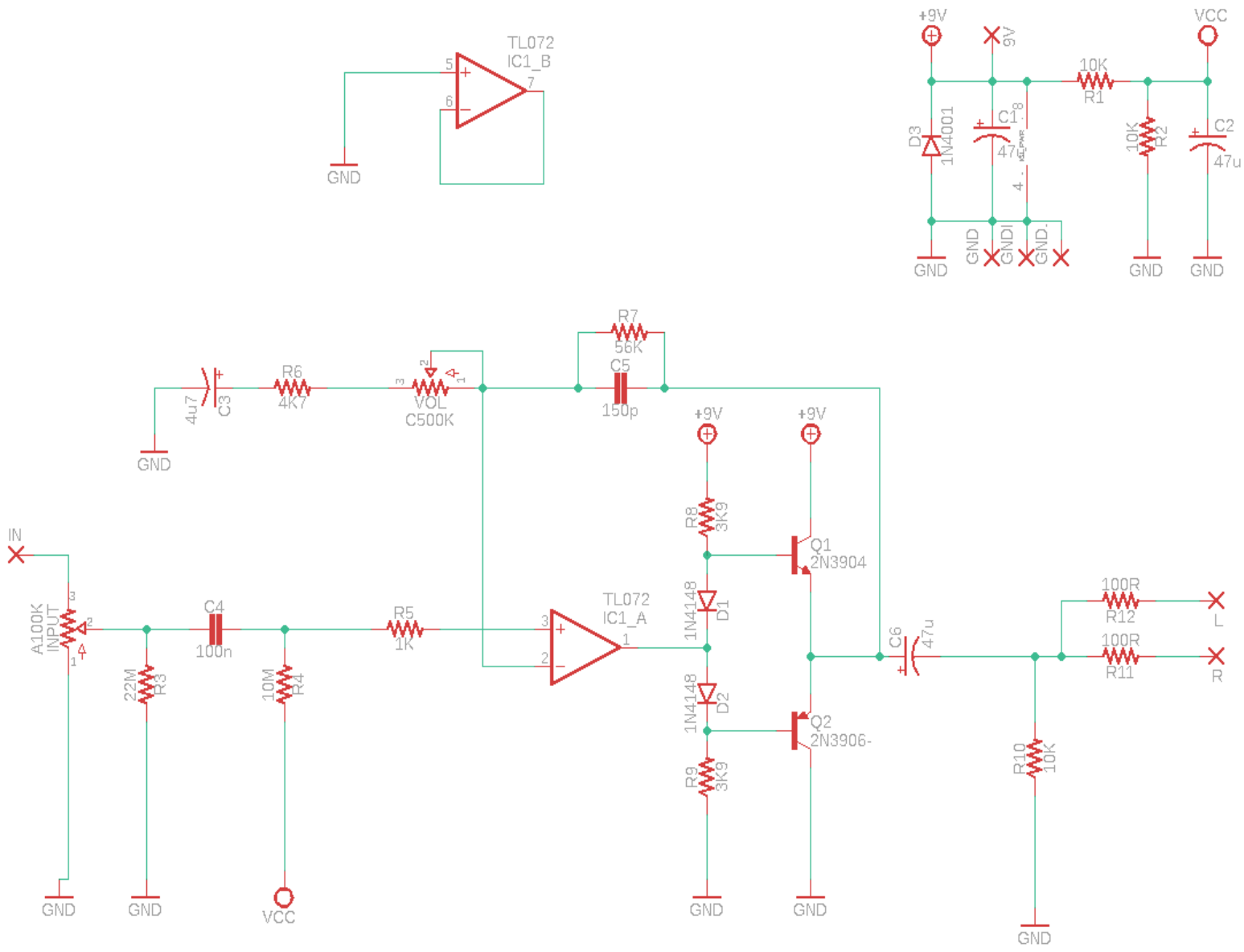
Moonn Electronics is in no way affiliated with MXR

Bill of Materials

Qty	Value	Parts	Notes
Resistors			
2	100R	R11, R12	
1	1K	R5	
2	3K9	R8, R9	
1	4K7	R6	
3	10K	R1, R2, R10	
1	56K	R7	
1	10M	R4	
1	22M	R3	
Ceramic Capacitors			
1	150p	C5	
Film Capacitors			
1	100n	C4	
Electrolytic Capacitors			
1	4u7	C3	
3	47u	C1, C2, C6	
Semiconductors			
2	1N4148	D1, D2	Match for best results
1	1N4001	D3	
1	2N3904	Q1	Match with Q2 for best results
1	2N3906	Q2	
1	TL072	IC1	
Pots and Switches			
1	A100K	INPUT	
1	C500K	VOL	More like a gain control

Use a stereo jack for the output and connect L and R to the ring and tip lugs and GND to the sleeve

Schematic


TL072
IC1_B
GND
+9V
9V
VCC
10K
R1
D3
1N4001
C1
47u
10K
R2
C2
47u
GND
GND
GND
GND
GND
R7
56K
C5
150p
4u7
C3
R6
4K7
VOL
C500K
GND
IN
A100K
INPUT
C4
100n
22M
R3
10M
R4
R5
1K
VCC
TL072
IC1_A
+9V
+9V
R8
3K9
Q1
2N3904
1N4148
D1
1N4148
D2
Q2
2N3906-
R9
3K9
C6
47u
100R
R12
100R
R11
L
R
R10
10K
GND
GND
GND
GND